

example, retrovirus, paramixovirus and the like. This sequence is introduced into a cell directly through the cell membrane.

Please replace the paragraph at page 6, line 11 with the following paragraph:

<Leader peptide: ~~seq-ID No. 1~~ SEQ ID NO:1>

Please replace the paragraph starting at page ~~6~~<sup>top page 8 line 1</sup>, line 17, with the following paragraph:

The linker DNA, composed of 15 to 18 bases, connects a leader peptide and a desired gene, and has a structure as below:

linker-1 (~~seq-ID No. 2~~ SEQ ID NO:2): 5'-Cys-CTA-ATA-CGA-CTC-ACT-AT-3'

linker-2 (~~seq-ID No. 3~~ SEQ ID NO:3): 3'-GA-TAT-GCT-GAG-TGA-T-5'

Please replace the paragraph starting at page 8, line 5 with the following paragraph:

Only one strand (linker-1, ~~seq-ID No. 2~~ SEQ ID NO:2) of complementary double strand of the linker DNA is covalently bonded with a leader peptide, thus when the linker is binding with the desired gene, only the other strand (linker-2, ~~seq-ID No. 3~~ SEQ ID NO:3) which is not covalently bonded with the leader peptide, can be covalently bonded with the desired gene, so it can be easily separated from the leader peptide under the inner environment of the nucleus. Thus, since both ends of separated genes are single-stranded, it is possible to be readily integrated into the inner part of the host chromosome later.

Please replace the paragraph at page 10, line 4 with the following paragraph:

Leader peptide (~~Seq. No. 1~~ SEQ ID NO:1) was synthesized by Fmoc-solid phase method.

Please replace the paragraph starting at page 10, line 5 with the following paragraph:

To linker-1 DNA (~~Seq. No. 2~~ SEQ ID NO:2), cystein was attached in order for binding with the leader peptide, and to the 5' end of linker-2 DNA (~~Seq. No. 3~~ SEQ ID NO:3), phosphate group was attached by T4 polykinase in order for binding with the marker gene.

Please replace the paragraph starting at page 11, line 15 with the following paragraph:

The expression of transgenes injected ~~[[to the]]~~ into each tissue was investigated by PCR after extracting mRNA from brain and muscle tissue, and synthesizing cDNA.

Please replace the paragraph starting at page 11, line 17 with the following paragraph:

The transgenes obtained from example 3 were intravenously injected to a male mouse (200g weight) with a dose of 500ng/day, at day 1, 3 and 5, then the mouse was euthanized at day 6. mRNA was extracted from brain and muscle tissue samples of the mouse, by using mRNA purification kit (~~ambion~~ Ambion™, Inc. (Austin, Texas), Cat. No. 1918).

Please replace the paragraph starting at page 12, line 1 with the following paragraph: